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**TRANSMITTAL
FORM**

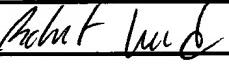
(to be used for all correspondence after initial filing)

 <p style="text-align: center;">JUL 31 2006 14919</p>	Patent Number	6,985,513
	Issue Date	January 10, 2006
	First Named Inventor	Ariela Zeira
	Application Number	09/755,400
	Filing Date	January 5, 2001
Total Number of Pages in This Submission	Attorney Docket Number I-2-0149.1US	

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Request for certificate of Correction; and
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	Form PTO/SB/44.
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	Robert D. Leonard		
Date	July 28, 2006	Reg. No.	57,204

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Robert D. Leonard	Date	July 28, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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JUL 31 2006

O I P E
IAP19

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2006

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

100.00

Complete if Known

Application Number	09/755,400
Filing Date	January 5, 2001
First Named Inventor	Ariela Zeira
Examiner Name	Tesfaldet Bocure
Art Unit	2631
Attorney Docket No.	I-2-0149.1US

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____
 Deposit Account Deposit Account Number: 09-0435 Deposit Account Name: InterDigital Communications Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee
 Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)
-	=	x	=	0	50	25
HP = highest number of total claims paid for, if greater than 20.				200	100	
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	360	180	
-	=	x	=	0		

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Req. for Certificate of Correction

AUG 03 2006
Certificate
of Correction

SUBMITTED BY

Signature	<i>Robert D. Leonard</i>	Registration No. (Attorney/Agent) 57,204	Telephone 215-568-6400
Name (Print/Type)	Robert D. Leonard	Date July 28, 2006	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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AUG 3 2006



PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

In the PATENT of:

Ariela Zeira

Patent No.: 6,985,513

Our File: I-2-149.1US

Issued: January 10, 2006

Date: July 28, 2006

Appln. No.: 09/755,400

Filed: January 5, 2001

For: CHANNEL ESTIMATION FOR TIME
DIVISION DUPLEX COMMUNICATION
SYSTEMS

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

A Certificate of Correction under 35 U.S.C. §§ 254, 255 and 37 C.F.R. §§ 1.322, 1.323 is requested for U.S. Patent No. 6,985,513. Correction of the following errors is requested.

ON THE TITLE PAGE

At section (56), OTHER PUBLICATIONS, page 1, right column, line 1, after the word "Using", insert --Fast--.

At section (56), OTHER PUBLICATIONS, page 2, left column, line 22, before the word "Group", delete "Specification".

08/01/2006 YFOLITE1 00000119 090435 6985513
01 FC:1811 100.00 DA

IN THE ABSTRACT

At section (57), ABSTRACT, right column, line 3, after the word "system"

AM 27/06

insert --is--.

IN THE SPECIFICATION

At column 2, line 11, after the word "system", insert --is--.

At column 2, line 32, after "2", delete "Mbs" and insert therefor --Mbps--.

At column 3, line 13, after the word "As", delete ",".

At column 3, line 21, after the word "sequence", delete " $\tilde{m}_p[i] = j^i \cdot m_p[i]$ " and
insert therefor -- $\tilde{m}_p[i] = j^i \cdot m_p[i]$ --.

At column 3, line 23, after the word "of", delete " \tilde{m}_p " and insert therefor

-- \tilde{m}_p --.

At column 3, line 24, after the word "to", delete " \tilde{m}_p " and insert therefor

-- \tilde{m}_p --.

At column 3, line 38, after the word "with", delete " $\overline{h(k)} \cdot \overline{h^{(k)}}$ "

" and insert therefor -- $\overline{h^{(k)}} \cdot \overline{h^{(k)}}$ --.

At column 4, line 20, delete "G = [M⁽¹⁾, ..., M^(k), ..., M^(k)]", and insert
therefor

-- G = [M⁽¹⁾, ..., M^(k), ..., M^(K)] --.

At column 4, lines 24-25, after the word "Equation", delete "6, 52." and insert
therefor --6--.

Patentee: Ariela Zeira
Patent No.: 6,985,513

REMARKS

Patentee believes that the above errors are of such a nature as to justify the issuance of a Certificate of Correction. Patentee has enclosed a completed Certificate of Correction Form PTO/SB/44.

Please charge the surcharge fee of \$100.00 to the Deposit Account of InterDigital Communications Corporation, Deposit Account No. 09-0435.

Patentee respectfully request that the Certificate of Correction be issued.

Respectfully submitted,

Ariela Zeira

By *Robert Leonard*
Robert D. Leonard
Registration No. 57,204
(215) 568-6400

Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

RDL/ejo

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : 6,985,513

APPLICATION NO.: 09/755,400

ISSUE DATE : Jan. 10, 2006

INVENTOR(S) : Ariela Zeira

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE TITLE PAGE

At section (56), OTHER PUBLICATIONS, page 1, right column, line 1, after the word "Using", insert --Fast--.

At section (56), OTHER PUBLICATIONS, page 2, left column, line 22, before the word "Group", delete "Specification".

IN THE ABSTRACT

At section (57), ABSTRACT, right column, line 3, after the word "system" insert --is--.

IN THE SPECIFICATIONS

At column 2, line 11, after the word "system", insert --is--.

At column 2, line 32, after "2", delete "Mbs" and insert therefor --Mbps--.

At column 3, line 13, after the word "As", delete ",".

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Volpe and Koenig, P.C.
 United Plaza, Suite 1600
 30 South 17th Street
 Philadelphia, PA 19103

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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APR 3 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : 6,985,513

APPLICATION NO.: 09/755,400

ISSUE DATE : Jan. 10, 2006

INVENTOR(S) : Ariela Zeira

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 3, line 21, after the word "sequence", delete " $\tilde{m}_p[i] = j^i \cdot \underline{m}_p[i]$ " and
 insert therefor -- $\tilde{m}_p[i] = j^i \cdot \underline{m}_p[i]$ --.

At column 3, line 23, after the word "of", delete " \tilde{m}_p " and insert therefor
 ~~\tilde{m}_p~~ .

At column 3, line 24, after the word "to", delete " \tilde{m}_p " and insert therefor
 ~~\tilde{m}_p~~ .

At column 3, line 38, after the word "with", delete " $\overline{h(k)} \cdot \overline{h^{(k)}}$ "
 and insert therefor -- $\overline{h^{(k)}} \cdot \overline{h^{(k)}}$ --.

At column 4, line 20, delete "G = [M⁽¹⁾, ..., M^(k), ..., M^(K)]", and insert therefor
~~G = [M⁽¹⁾, ..., M^(k), ..., M^(K)]~~.

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AUG 3 2006

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 3 of 3

PATENT NO. : 6,985,513

APPLICATION NO.: 09/755,400

ISSUE DATE : Jan. 10, 2006

INVENTOR(S) : Ariela Zeira

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 4, lines 24-25, after the word "Equation", delete "6, 52." and insert therefor --6--.

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Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

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FAPIC 3/2003